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inferior condylar exostosis; *Hf*, humeral facet; *Rf*, radial facet; *Uf*, ulnar facet.

Figs. 6–11. Bones of abnormal left elbow joint of horse; one-half natural size.
12, 13. Normal bones of elbow joint of horse; one-half natural size.
6–12. Humerus, distal views.
7–13. Cubitus, proximal views.
8. Humerus, external view of distal extremity.
9. Humeral articulation of cubitus, from above.
10. Cubitus, internal view.
11. Cubitus, external view.

Additional lettering.—*Op*, olecranar process of ulna; *Cp*, coronoid process of ulna; *Og*, olecranar groove of humerus; *Tc*, trochlear crest of humerus; *Tg*, trochlear groove of humerus; *Ehc*, external humeral facet of coronoid process; *Ihc*, internal humeral facet of coronoid process.

The lettering of the abnormal facets and exostoses in Figs. 6–11 conforms to that of the same in the etiological classification on page 289.

Stated Meeting, September 2, 1892.

Present, 3 members.

President, Mr. FRALEY, in the Chair.

The decease of the following members was announced:

M. F. Longstreth, Sharon Hill, Pa., December 27, 1891, æt. 73.

H. Burmeister, Buenos Ayres, May 6, 1892, æt. 86.

John R. Baker, Philadelphia, June 22, 1892, æt. 74.

George William Curtis, New York City, August 31, 1892, æt. 68.

Correspondence was submitted as follows:

A letter accepting membership from Mr. Joseph D. Potts, Philadelphia, dated May 24, 1892.

A letter acknowledging receipt of diploma from Dr. Caspar René Gregory, Leipzig.

A circular from the R. Accademia delle Scienze di Torino,

announcing the death of its Vice-President, Prof. Comm. Giovanni Flechia, June 3, 1892.

A circular from the Committee for the Erection of a Monument to the Memory of M. A. de Quatrefages, inviting subscriptions for that purpose.

A circular from the Royal Society of N. S. Wales, offering its medal and £25 for the best communication containing the results of original research or observation upon the various subjects named.

An invitation from the Buffalo Historical Society to the unveiling of the statue of Red Jacket, erected by that Society, to take place June 22, 1892.

An invitation from the Deutsche Anthropologische Gesellschaft, to attend the Twenty-third Congress, to take place at Ulm, August 1 to 3, 1892.

A circular from the American Chemical Society, New York, announcing the Fifth General Meeting, to be held at Rochester, N. Y., August 16 and 17, 1892.

A program of meetings and excursions of the Sixth Session of the Congrès Géologique International, to take place at Zurich, in 1894.

Announcement of the Tenth Session of the Congrès Internationale des Orientalistes, to be held at Lisbon, September 23 to October 1, 1892.

A letter from Mr. Lorin Blodgett, dated Philadelphia, July 16, 1892, enclosing memorandum of a project devised by his ancestor, Samuel Blodgett, for the formation of a National University, to be erected in Washington, D. C.

A letter from C. H. Hart, Esq., giving reasons to show that the portrait labeled Francis Hopkinson was really that of Samuel Vaughan. The communication was referred to the Curators.

Letters of envoy were received from the Australasian Association for the Advancement of Science, Sydney; Naturforsche Gesellschaft, Dorpat, Russia; Comite Geologique, Observatoire Physique Central, St. Petersburg; Institut Météorologique de Roumaine, Bucarest; Société R. Norvégienne des

Sciences, Throndhjem; Université Royale, Lund, Sweden; Musée Teyler, Harlem, Holland; Maatschappij der Nederlandsche Letterkunde, Leiden, Holland; Naturforschende Verein, Brünn, Austria; K. Akademie der Wissenschaften, Berlin; K. Sächsische Gesellschaft der Wissenschaften, Leipzig; Gesellschaft zur Beförderung der gesammten Naturwissenschaften, Marburg; Centralbureau der Internationalen Erdmessung, Potsdam, Prussia; Altertumsverein für Zwickau und umgegend, Zwickau, Saxony; École Polytechnique, Bureau des Longitudes, Musée Guimet, Paris; Meteorological Office, Royal Statistical Society, London, Eng.; Royal Irish Academy, Dublin; Geological Survey of Pennsylvania, Harrisburg; U. S. Fish Commission, Washington, D. C.; University of Wisconsin, Madison.

Letters of acknowledgment (Transactions xvii, 1 and 2) were received from the Observatoire Physique Central de Russie, St. Petersburg; Geological and Natural History Survey, Ottawa, Canada; Museum of Comparative Zoölogy, Cambridge, Mass.; American Antiquarian Society, Worcester, Mass.; Yale University, New Haven, Conn.; State Library, Albany, N. Y.; Buffalo Library, N. Y. Historical Society, New York; New Jersey Historical Society, Newark; Academy of Natural Sciences, Franklin Institute, Library Company, Philadelphia; U. S. Geological Survey, Washington, D. C.; University of California, Berkeley; California Academy of Sciences, San Francisco; State Historical Society of Wisconsin, Madison.

Letters of acknowledgment were received from the Institut Egyptien, Cairo (135); R. Society of N. S. Wales, Sydney (135); I. Academy of Sciences (136, 137), Russian Chemical Society, St. Petersburg (136); Observatory, Taschkent (136); Université Royale, Lund, Sweden (132–136); Société Hongroise de Geographie, Budapest (136); K. K. Central Anstalt für Meteorologie, etc. (137), K. K. Naturhistorisches Hofmuseum (136), Prof. Franz v. Hauer (134–137), Dr. Frederick S. Krauss (134–136), Drs. M. Much, Frederick Müller (136), E. Suess (135, 136), Vienna, Austria; Naturforschende Gesell-

schaft des Osterlandes, Altenburg (137); University, Bonn (136); Prof. H. von Helmholtz, Charlottenburg (132, 133, 135, 136, 137); K. Sächsisches Meteorologisches Institut, Chemnitz (96–130, 136, 137, and Catalogue Parts i–iv); Verein f. Erdkunde, Dresden (137); Naturforschende Gesellschaft, Emden (136, 137); Oberhess. Gesellschaft für Natur- und Heilkunde, Giessen (136); Naturhistorische Gesellschaft, Hanover (136); Verein der Freunde der Naturgeschichte, Mecklenburg (131–136); K. Sternwarte (136), Prof. J. Victor Carus (136), Dr. Julius Platzmann (137), Leipzig; Naturwissenschaftlicher Verein, Osnabrück (96–136, and Catalogue Parts i–iv); Prof. Dr. Johannes Dümichen, Strassburg (135); Royal Zoölogical Society, Natura Artis Magistra, Amsterdam (136); Royal Zoölogical and Botanical Society, The Hague (136); Tyler Museum, Harlem, Holland (136); Société Royale de Geographie, Antwerp, Belgium (134); R. Accademia dei Lincei, R. Comitato Geologico D'Italia, Prof. Guiseppe Sergi, Rome (136); Académie R. des Sciences, Prof. Guido Cora, Turin (136); Société D'Emulation, Abbeville (136); Société de Borda, Dax (136); Société des Sciences Naturelles and Archieologiques de la Creuse, Guéret (136); "Le Cosmos" (137), Musée d'Histoire Naturelle (134), Marquis de Nadaillac, Profs. Abel Hovelacque, Léon de Rosny (137), Paris; Mr. Samuel Timmins, Arley, near Coventry, Eng. (137); Philosophical Society, University Library, Cambridge, Eng. (137); Mr. Alfred R. Wallace, Parkston, Dorset, Eng. (137); British Museum of Natural History (128, 131, 132, 133, 137), Royal Society, Local Government Board, Royal Meteorological Society, Department of Science and Art, Royal Geographical Society, Royal Institution, Royal Astronomical Society, Linnean Society (137), Sir James Paget (137), Dr. W. H. Flower (128, 131, 132, 133, 137), Messrs. C. Juhlin Dannefeld, Charles G. Leland, Rawson W. Rawson (137), London, Eng.; Geographical Society, Manchester (137); Natural History Society, Newcastle-on-Tyne (137); Radcliffe Observatory, Prof. J. J. Sylvester, Oxford, Eng. (137); Royal Geological Society of Cornwall, Penzance, Eng. (137); Royal Society, Royal Obser-

vatory, Edinburgh (137); Philosophical Society, Glasgow (137); Prof. James E. Oliver, Ithaca, N. Y. (130, 137); Columbia College, Editors of "Popular Science Monthly," N. Y. Mathematical Society, Mr. James Douglas, New York (137); Geological Society of America, Rochester, N. Y. (137); N. J. Natural History Society, Trenton (137); Dr. Persifor Frazer, Mr. Joseph D. Potts, Philadelphia (137); Rev. F. A. Muhlenberg, Reading, Pa. (136, 137); Maryland Historical Society, Baltimore (137); Smithsonian Institution, Washington, D. C. (540 packages, 137); Michigan Agricultural College, Ingham Co. (135, 136, 137); Kansas State Historical Society, Topeka (128); Sociedad Cientifica "Antonio Alzate" (127, 132, 133), Observatorio Astronomico N. M., Tacubaya (137); Agricultural College of New Mexico, Las Cruces (137); Bishop Crescencio Carrillo, Merida, Yucatan (137); Museo Nacional, Buenos Ayres, S. A. (135).

Letters of acknowledgment (138) were received from Mr. Horatio Hale, Clinton, Ontario; Hon. J. M. Le Moine, Quebec; McGill College, Natural History Society, Montreal; Geological Survey, Ottawa; Canadian Institute, Toronto; Historical and Scientific Society, Winnipeg; Bowdoin College, Brunswick, Me.; Society of Natural History, Portland, Me.; Prof. Charles E. Hitchcock, Hanover, N. H.; Vermont Historical Society, Montpelier; Hatch Experiment Station, Amherst, Mass.; Mr. Robert N. Toppan, Museum of Comparative Zoölogy, Cambridge, Mass ; Massachusetts Institute of Technology, State Library of Massachusetts, Boston Society of Natural History, Massachusetts Historical Society, Messrs. Hamilton A. Hill, Robert C. Winthrop, Boston; Essex Institute, Salem, Mass.; Rhode Island Historical Society, Providence Franklin Society, Providence, R. I.; Mr. George F. Dunning, Farmington, Conn.; Connecticut Historical Society, Hartford; New Haven Colony Historical Society; Prof. James Hall, Albany, N. Y.; Buffalo Library, N. Y.; Prof. E. North, Clinton, N. Y.; Profs. J. M. Hart, J. E. Oliver, B. G. Wilder, Ithaca, N. Y.; New York Hospital, Historical Society, Academy of Medicine, Columbia College, Entomological

Society, Mathematical Society, Astor Library, American Museum Natural History, University of the City of New York, "Popular Science Monthly," Prof. J. A. Allen, Messrs. James Douglass, R. W. Raymond, New York; Vassar Brothers' Institute, Poughkeepsie, N. Y.; Geological Society of America, Rochester, N. Y.; U. S. Military Academy, West Point, N.Y.; Prof. Henry M. Baird, Yonkers, N. Y.; Mr. Isaac C. Martindale, Camden, N. J.; Free Public Library, Jersey City, N. J.; New Jersey Historical Society, Newark; Prof. C. A. Young, Princeton, N. J.; Oneida Historical Society, Utica, N. Y.; Dr. Robert H. Alison, Ardmore, Pa.; Prof. Charles F. Himes, Carlisle, Pa.; Hon. Eckley B. Coxe, Drifton, Pa.; Prof. M. H. Boyé, Coopersburg, Pa.; Profs. Trail Green, Thomas C. Porter, J. W. Moore, Easton, Pa.; Mr. Andrew S. McCreath, Harrisburg, Pa.; Prof. Lyman B. Hall, Haverford, Pa.; Mr. John Fulton, Johnstown, Pa.; Linnean Society, Lancaster, Pa.; Prof. John F. Carll, Pleasantville, N. J.; Rev. F. A. Mühlenberg, Reading, Pa.; Rev. G. W. Anderson, Rosemont, Pa.; Dr. John Curwen, Warren, Pa.; Mr. Philip P. Sharples, Hon. Washington Townsend, Philosophical Society, West Chester, Pa.; College of Physicians, Academy of Fine Arts, Historical Society of Pennsylvania, Library Company of Philadelphia, Numismatic and Antiquarian Society, Engineers' Club, Wagner Free Institute of Science, Messrs. Charles Bullock, Henry C. Baird, S. Castner, Jr., Thomas M. Cleemann, Patterson Du Bois, Edward Hopper, Joseph S. Harris, James T. Mitchell, Robert Patterson, Franklin Platt, J. D. Potts, J. G. Rosengarten, Theodore D. Rand, Coleman Sellers, L. A. Scott, D. K. Tuttle, Louis Vossion, Charles Stewart Wurts, Ellis Yarnall, Mrs. Helen Abbott Michael, Profs. John Ashhurst, Jr., H. D. Gregory, F. A. Genth, Jr., L. M. Haupt, H. W. Spangler, Drs. W. G. A. Bonwill, D. G. Brinton, George Friebis, Persifor Frazer, William Goodell, George R. Moorehouse, John Marshall, Charles A. Oliver, C. N. Peirce, W. S. W. Ruschenberger, Benjamin Sharp, H. Clay Trumbull, William H. Wahl, Philadelphia, Pa.; Mr. William M. Canby, Wilmington, Del.; Maryland Institute, Baltimore;

Smithsonian Institution, U. S. Geological Survey, U. S. Coast and Geodetic Survey, Anthropological Society, Surgeon General's Office, Patent Office, Weather Bureau, Mr. W. B. Taylor, Dr. W. J. Hoffman, Profs. S. F. Emmons, C. V. Riley, Charles A. Schott, Washington, D. C.; University of Virginia, Prof. J. W. Mallet, Charlottsville, Va.; Mr. Jed. Hotchkiss, Staunton, Va.; Agricultural Experiment Station, Prof. I. C. White, Morgantown, W. Va.; Georgia Experiment Station, Experiment; Georgia Historical Society, Savannah; University of Alabama, Tuscaloosa; Agricultural Experiment Station, Baton Rouge, La.; Prof. J. C. Branner, Palo Alto, Cal.; University of California, Berkeley; Lick Observatory, Mt. Hamilton, Cal.; Prof. Daniel Kirkwood, Riverside, Cal.; Prof. E. W. Claypole, Akron, O.; Ohio Archæological and Historical Society, Columbus; Cincinnati Observatory, O.; Davenport Academy of Natural Sciences, Iowa; State University, Iowa City, Iowa; Prof. J. L. Campbell, Crawfordville, Ind.; Purdue Experiment Station, La Fayette, Ind.; University of Michigan, Ann Arbor; Michigan Agricultural College, Ingham Co.; Geological Survey of Missouri, Jefferson City; Prof. Herman Haupt, St. Paul, Minn.; State Historical Society of Wisconsin, Madison; Kansas State Historical Society, Topeka; Agricultural Experiment Station, Manhattan, Kans.; Agricultural College of New Mexico, Las Cruces; Observatorio Astronómico Nacional Mexicano, Tacubaya; Don Mariano Barcena, Dr. Antonio Péñafiel, Sociedad Cientifica "Antonio Alzate," Mexico.

Donation to Cabinet—Phototype of Dr. Benjamin Franklin, from Mr. Julius R. Sachse, Philadelphia, Pa.

Accessions to the Library were reported from the R. Geographical Society of Australasia (Queensland Branch), Brisbane; R. Geographical Society of South Australasia, Melbourne; Royal Society of New South Wales, Australasian Association for Advancement of Science, Sydney; Royal Society of Tasmania, Hobart; Tokyo Library, Geographical Society; Royal Asiatic Society (Straits Branch), Singapore; K. Akademie der Wissenschaften, Comité Geologique, St.

Petersburg; Société Finno-Ougrienne, Helsingfors; Société des Naturalistes, Kief; Société des Naturalistes, Odessa; Institut Météorologique de Roumaine, Bucarest; Naturforsche Gesellschaft, Dorpat; University, Lund, Sweden; K. Norske Videnskabers Selskab, Throndhjem; Naturforschender Verein, Brünn, Austria; K. K. Sternwarte, K. Böhmische Gesellschaft der Wissenschaften, Prag; K. Akademie der Wissenschaften, Geologische Reichsanstalt, K. K. Naturhistorische Hof-Museum, Vienna; Physiologische Gesellschaft, K. P. Geologische Landesanstalt und Bergakademie, Berlin; Naturwissenschaftlicher Verein, Bremen; Naturwissenschaftliche Gesellschaft (Isis), Dresden; Oberhessische Gesellschaft, Giessen; Naturhistorische Gesellschaft, Hanover; K. Gesellschaft der Wissenschaften, Göttingen; Gesellschaft zur Beförderung der Gesammten Naturwissenschaften, Marburg; Centralbureau der Internationalen Erdmessung, Potsdam; Altertumsverein für Zwickau und umgegend, Zwickau; Nederlandsche Maatschappij ter Bevorderung van Nijverheid, Musée Teyler, Hollandaise Maatschappij der Wetenschappen, Harlem; Friesch Genootschap van Geschied-Oudheiden Taalkunde, Leeuwarden; Maatschappij der Nederlandsche Letterkunde, Leiden; K. Bibliothek, 's Gravenhage; Société R. Malacologique de Belgique, Bruxelles; Musée d'Histoire Naturelle, Lausanne; Prof. E. Renevier, Lausanne; R. Accademia di Scienze Morale e Politiche, Naples; Ministiro di Agricoltura, Industria e Commercia, R. Comitato Geologico d'Italia, R. Accademia dei Lincei, Prof. Giuseppe Sergi, Rome; M. L. Michael-Angelo Billia, "Il Nuovo Resorgimento," Milan; R. Accademia di Scienze Morale e Politiche, Naples; Société Linnéenne, Bordeaux; Académie N. des Sciences, Arts, etc., Caen; Société N. des Sciences, Arts, etc., Cherbourg; Académie des Sciences, Arts, etc., Dijon; Union Géographique du Nord de la France, Donai; Société de Geographie, Lille; École Polytechnique, Zoölogical and Anthropological Societies, Musée Guimet, Bureau des Longitudes, Muséum d'Histoire Naturelle, "La Revue des Revues," Paris; R. Cornwall Polytechnic Society, Royal Observatory, Greenwich; Philosophi-

cal and Literary Society, Leeds; Royal Society, Linnean Society, Meteorological Council, London; Literary and Philosophical Society, Manchester; Natural History Society of Northumberland, Durham, etc., Newcastle-on-Tyne; Royal Irish Academy, Dublin; Geological and Natural History Survey of Canada, Ottawa; Canadian Institute, Toronto; Novascotian Institute of Science, Halifax; Society of Natural Sciences, Portland; Agricultural Experiment Station, Amherst, Mass.; Massachusetts Historical Society, Mr. Robert T. Swan, Boston; Messrs. Hilborne T. Cresson, Andrew McFarland Davis, Cambridge, Mass.; Free Public Library, New Bedford, Mass.; Rhode Island State Agricultural Experiment Station, Providence; Connecticut Historical Society, Hartford; Yale University, American Oriental Society, New Haven, Conn.; Brooklyn Library; Prof. James Hall, Albany, N. Y.; Agricultural Experiment Station, Geneva, N. Y.; American Institute of Electrical Engineers, Academy of Sciences, Council of the Scientific Alliance of New York, American Museum Natural History, Meteorological Observatory, New York; New Jersey Agricultural Experiment Station, Geological Survey of New Jersey, Trenton; Pennsylvania Geological Survey, Harrisburg; State College, Pennsylvania; Zoölogical Society, Messrs. R. Meade Bache, Amos P. Brown, A. F. Chamberlain, John Ellis, Moses Klein, Henry Phillips, Jr., Philadelphia; Agricultural Experiment Station, College Park, Md.; Peabody Institute, Baltimore, Md.; Smithsonian Institution, Philosophical Society, Geological Survey, U. S. Naval Observatory, War Department, U. S. Board of Geographical Names, Bureau of Education, Director of the Mint, U. S. Fish Commission, Washington, D. C.; Col. C. C. Jones, Jr., Augusta, Ga.; Historical Society, Savannah, Ga.; Tulane University, New Orleans, La.; Archæological and Historical Society, Columbus, O.; Cincinnati Observatory; University of Chicago; University of Michigan, Ann Arbor; Public Library, St. Louis, Mo.; Geological Survey of Missouri, Jefferson City; Wisconsin Academy of Sciences, Agricultural Experiment Station, Madison; State University of Iowa, Iowa

City; Editor of "Kansas University Quarterly," Lawrence; Washburn College, Agricultural Experiment Station, Topeka, Kans.; Agricultural Experiment Station, Fargo, N. Dak.; Museo Michoacano, Morelia, Mexico; Bishop Crescencio Carrillo, Merida, Yucatan; Institut Egyptien, Cairo.

A paper by Prof. Daniel Kirkwood, entitled "On the Mutual Relations Between the Orbits of Certain Asteroids," was presented by the Secretary.

Pending nomination No. 1242 was read.

Deferred business was laid over.

And the Society was adjourned by the President.

Stated Meeting, September 16, 1892.

Present, 5 members.

President, Mr. FRALEY, in the Chair.

Correspondence was submitted as follows:

A letter from Mr. Harold Goodwin, Philadelphia, accepting membership.

New exchanges—Naturforscher Gesellschaft, Dorpat, Russia; Directeur de "La Revue des Revues," Paris; Agricultural Experiment Stations, Fargo, N. Dak., Brookings, S. Dak.

Letters of envoy were received from the Magyar Tudományos Akadémia, Budapest; Académie des Sciences, Cracow; K. Geologische Landesanstalt und Bergakademie, Berlin; Vogtländische Alterthumsforschende Verein, Hohenleuben; Ministère des Travaux Publics, Paris.

Letters of acknowledgment were received from the South African Philosophical Society, Cape Town (134, 135); Capt. Richard C. Temple, Bombay, India (136); Société de Geographie de Finlande, Helsingfors (96–130, 136, 137, and Catalogue, Parts i–iv); Observatoire Physique Central, St. Petersburg (137); Prof. Japetus Steenstrup, Copenhagen (136, 137);